

Message Text

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TAGS: TGEN, US, UR

SUBJECT: US-USSR S&T AGREEMENT: US PROPOSAL FOR NEW TOPIC
(01.0004)

REF: MOSCOW 14577

1. PROPOSAL FOR POSSIBLE NEW AREA OF COOPERATION IN
EARTH SCIENCES FOLLOWS:

2. EARTH SCIENCES:

OBJECTIVES: TO LEARN MORE ABOUT THE STRUCTURE AND
COMPOSITION OF THE EARTH FOR THE BENEFIT OF MANKIND.

PROGRAM: IT SHOULD BE NOTED THAT THIS PROGRAM IS AN
EXTENSION OF PROJECTS ON THE EARTH'S CRUST, AND INVOLVES
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PAGE 02 STATE 164886 POSS DUPE

FIELD AND GEOPHYSICAL STUDIES IN AREAS MUTUALLY AGREED
UPON.

1. DYNAMICS AND CHEMISTRY OF UNDERGROUND WATERS.
DISPOSAL OF WASTE MATERIALS.

2. ORE FORMING PROCESSES.

3. STRUCTURE AND EVOLUTION OF THE CONTINENTAL CRUST.

A. GEOLOGY

(1) PETROLOGY OF PRE-CAMBRIAN ROCKS, ESPECIALLY IN RESPECT TO GEOCHEMICAL PROCESSES, INCLUDING METALLOGENESIS. (THE EXPOSED PRE-CAMBRIAN AREAS OF BOTH THE U.S. AND THE U.S.S.R. ARE LIMITED, AND COMBINING THE RESULTS OF SUCH STUDIES SHOULD BE BENEFICIAL.)

(2) STUDIES OF CAMBRIAN AND YOUNGER AREAS TO DECIPHER CONTINENTAL MOVEMENTS, COLLISIONS, AND THE DEVELOPMENT OF MOUNTAIN BELTS. (SUCH STUDIES WOULD AID IN THE EXPLORATION FOR ORES AND FOSSIL FUELS.)

B. GEOPHYSICS

(1) DETERMINING DEEP CRUSTAL STRUCTURE.

(A) DEEP SEISMIC REFRACTION LINES. (THE USSR HAS OBTAINED SUCH LINES THAT SHOW CRUST UNLIKE THAT IN NORTH AMERICA.)

(B) DEEP REFLECTION PROFILES. (THE U.S. HAS SUCH A PROGRAM, WITH NO SOVIET COUNTERPART.)
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PAGE 03 STATE 164886 POSS DUPE

(C) EXCHANGE OF DATA SHOULD BENEFIT BOTH SIDES. DATA SHOULD BE CORRELATED WITH DATA ON GRAVITY, MAGNETICS, HEAT FLOW, AND ELECTRICAL STUDIES.

C. DEEP CONTINENTAL DRILLING

(1) USSR HAS A UNIQUE PROGRAM OF DEEP DRILLING ON LAND

(2) U.S. IS PROPOSING TO EXPAND ITS CONTINENTAL DRILLING EFFORTS

(3) EXCHANGE OF INFORMATION SHOULD BE ESTABLISHED.

POSSIBLE U.S. PARTICIPANTS:

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2. DR. HAROLD JAMES, UNITED STATES GEOLOGICAL SURVEY (USGS) - RETIRED, (RESIDES IN THE STATE OF WASHINGTON). (GEOLOGY, PETROLOGY, DEPOSITS, PRE-CAMBRIAN TOPICS)

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6. DR. EUGENE SHOEMAKER, CALIFORNIA INSTITUTE OF
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PAGE 04 STATE 164886 POSS DUPE

8. DR. LUNA LEOPOLD, UNIVERSITY OF CALIFORNIA-BERKELEY.
(HYDROLOGY)

3. SINCE SOVIETS HAVE LITTLE INTEREST IN PLANT SCIENCES
TOPIC, US SIDE WILL NOT SUBMIT PROPOSAL.

4. FYI. CONSIDERATION STILL BEING GIVEN TO LASER
CHEMISTRY TOPIC. SUBJECT MAY BE DROPPED SINCE SOVIETS
HAVE PLACED IT THIRD IN THEIR RANKING OF US PROPOSALS.
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